

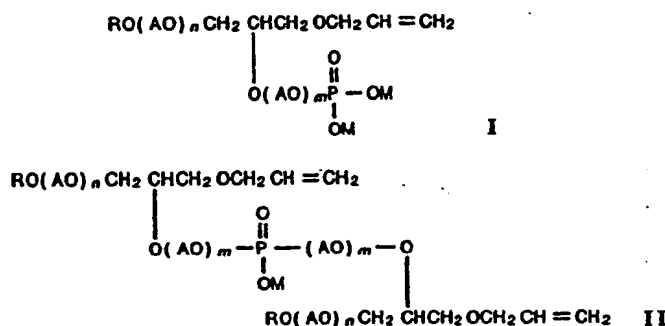


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- 111:175387u Emulsifiers for aqueous polymers. Ichihara, Akinobu; Niike, Hitoshi (Daiichi Kogyo Seiyaku Co., Ltd.) Jpn. Kokai Tokkyo Koho JP 63 12,334 [88 12,334] (Cl. B01F17/42), 19 Jan 1988, Appl. 86/145,943, 20 Jun 1986; 9 pp. Emulsifiers are



composed of mixts. of I [R = C<sub>8-30</sub> alkyl, alkenyl, alkylaryl, aralkylaryl; A = C<sub>2-4</sub> (substituted) alkylene; n = 0-100; m = 1-200; M = alkali metal, alkanolamine, NH<sub>4</sub>, H] and II. Thus, treating 220 g nonylphenol with 120 g allylglycidyl ether in the presence of 1.5 g triethylamine, heating with ethylene oxide in the presence of KOH at 130° and 1.5 kg/cm<sup>2</sup>, and heated 210 g of the reaction product with 23 g anhyd. H<sub>3</sub>PO<sub>4</sub> at 80° for 5 h gave 55:45 mol ratio monoester:diester mixt. The mixt. (5 phr) was used to emulsion polymn. 20 parts Et acrylate exhibiting good stability and a film from the polymer having good water resistance.